Table of Contents: Volume 17 (1996)

Number 1

Editorial 5
Motion of Points and Lines in the Uncalibrated Case ..... *Thierry Viéville, Olivier D. Faugeras and Quang-Tuan Luong* 7
The Fundamental Matrix: Theory, Algorithms, and Stability Analysis ..... *Quang-Tuan Luong and Olivier D. Faugeras* 43
3D Free-Form Surface Registration and Object Recognition ..... *Chin Seng Chua and Ray Jarvis* 77

Number 2

Special Issue: Machine Vision Research at the Royal Institute of Technology
Guest Editor: Jan-Olof Eklundh

Machine Vision Research at CVAP: An Introduction ..... *Jan-Olof Eklundh* 107
Dynamic Fixation and Active Perception ..... *Kourosh Pahlavan, Tomas Uhlin and Jan-Olof Eklundh* 113
Active Fixation for Scene Exploration ..... *Kjell Brunnström, Jan-Olof Eklundh and Tomas Uhlin* 137
Direct Computation of Shape Cues Using Scale-Adapted Spatial Derivative Operators ..... *Jonas Gårding and Tony Lindeberg* 163
Projectively Invariant Decomposition and Recognition of Planar Shapes ..... *Stefan Carlsson* 193

Number 3

Reflectance Based Object Recognition ..... *Shree K. Nayar and Ruud Bolle* 219
Detection of Diffuse and Specular Interface Reflections and Inter-Reflections by Color Image Segmentation ..... *Ruzena Bajcsy, Sang Wook Lee and Aleš Leonardis* 241
On Convergence in the Methods of Strat and of Smith for Shape from Shading ..... *Jean-Denis Durou and Henri Maître* 273
Parabolic Curves of Evolving Surfaces ..... *J.W. Bruce, P.J. Giblin and F. Tari* 291